

Please do all your work on a separate piece of paper. Please show all setup and work!

1. Marty inherited a sum of money from a relative. He deposits some of the money at 16%, and \$4000 more than this at 12%. He earns \$3840 in interest per year. How much is invested at each rate?
2. Evelyn invested some money at 10%, and \$5000 more than this at 14%. Her total annual interest was \$3100. How much was invested at each rate?
3. Joe invested some money at 8%, and \$3000 more than twice as much at 10%. The total annual interest was \$2540. How much was invested at each rate?
4. Larry has \$20,000 to invest, some at 5% and some at 7%. If the annual interest is \$1240, how much is invested at each rate?
5. Mary has \$35,000 to invest, some at 6% and some at 9%. If the annual interest is \$2760, how much is invested at each rate?
6. Ink worth \$100 per barrel will be mixed with ink worth \$60 per barrel to get 48 barrels of ink worth \$75 per barrel. How many barrels of each type of ink should be used?
7. Helen has 2 more dimes than nickels. Altogether she has \$1.70. How many coins of each type does she have?
8. A bank teller has some five-dollar bills and some twenty-dollar bills. The teller has 5 more twenties than fives. The total value of the money is \$725. How many of each type of bill does she have?
9. A merchant wishes to mix candy worth \$5 per pound with candy worth \$2 per pound to get 60 pounds of a mixture that can be sold for \$3 per pound. How many pounds of each type of candy should be used?
10. A merchant wishes to mix some candy worth \$1.50 a pound with some candy worth \$5.50 a pound to get 240 pounds of candy worth \$3.50 per pound. How many pounds of the \$5.50 candy should she use?